SurgeArrest

Thank you for selecting APC SurgeArrest! It has been designed to provide the highest value of protection against spikes and EMI/RFI noise on electrical lines.

Save these instructions for future reference!

⚠ SAFETY PRECAUTIONS

► Do not install this device during a lightning storm!
► The SurgeArrest is intended for a cool (0-40 °C) and dry indoor environment with relative humidity of 0-95% non-condensing. Do not install the SurgeArrest near heaters or in a hot environment. Do not install the SurgeArrest in an excessively moist or potentially wet environment, for example: near bathtub, sinks, pools etc.
► The SurgeArrest is intended to supply electric power to computers, peripheral, and electronic equipment. The SurgeArrest is rated for 100 VAC, 50/60 Hz, and 15 Amps maximum.
► For best protection against spikes induced by lightning storms, it is hightly recommended that the SurgeArrest surge suppressor be grounded to earth.
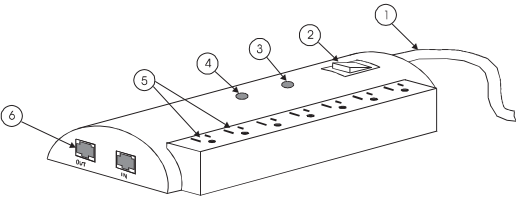

Figure 1

Product Features

Please refer to Figure 1 for the following information and instructions.
①✎ The **Power Cord** is designed for a three wire system (two wires carry power and the third is connected to earth). A two to three wire Adapter Plug is provided for two wire receptacles.
②. Each SurgeArrest has a built-in ON/OFF **Power Switch** to allow the user to activate electricity to connected equipment such as computers, printers, terminals etc.
③. The **POWER ON** indicator is activated when the Power Switch is ON and the unit is receiving electricity.

④. The **Protection Working** ⚠ indicator is activated as long as the thermal fuse is intact. If this indicator is extinguished, the product disconnects from the utility line. In this case, return this unit to APC for repair or replacement.
⑤. Seven **Outlets** are provided for your convenience.
⑥. **Telephone Protector/ Network Port Protector** (optional) Model Pro7T-J hasa built-in one line (two wire) telephone protector. A six foot telephone extension cord is provided. Model Net7N-J has a built-in network protector. Network Port Protector (for 10BaseT, 100BaseT, 100BaseTX, 100BaseT4, 100VG-AnyLAN, & Token Ring interface cards & HUBs).
Note: Never connect an ISDN line to a SurgeArrest•.
⑦. Each SurgeArrest is equipped with a 15 Amp **circuit breaker** to protect against electrical power overload. Button will pop up in the event of an overload. If this happens, unplug at least one piece of equipment, and reset button.
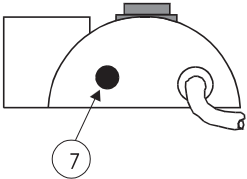⑧. A 3 prong to 2 prong **Plug Adaptor** is provided for your convenience. See figure 3.

Figure 2

Installation Instructions

1. Turn OFF Power Switch ②. The switch lever marked with the "O" should be down.
2. Connect the Power Cord ① into a 100VAC receptacle. It is highly recommended that a grounded receptacle be used. If your receptacle is ungrounded (accepts only plugs with two blades), attach the 3 to 2 Plug Adapter that is supplied with the unit. The Adapter Plug has a green wire that is used to connect to earth ground where permitted or accessible. Please note that ungrounded surge protectors do not provide effective surge protection between line to ground. Check local electrical laws governing grounding practices. See Figure 3 below.
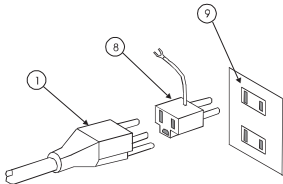

Figure 3

3. Connect power cords of electrical equipment to be protected into the Outlets on the SurgeArrest.
4. For model Pro7T-J, protect your telephone, fax machine, or modem by connecting the supplied telephone extension cord into the telephone jack on the wall and connecting the other end into the jack marked "IN" on the

SurgeArrest. Connect your telephone equipment cord on the jack marked "OUT" on the SurgeArrest.
5. For model Net7N-J, protect your local area network card by connecting the LAN cable from the Concentrator HUB to the "IN" jack on the SurgeArrest. Connect one end of the supplied cable to the network card jack and connect the other end to the "OUT" jack on the SurgeArrest.
6. Turn ON the SurgeArrest power switch.
7. Turn ON connected equipment.

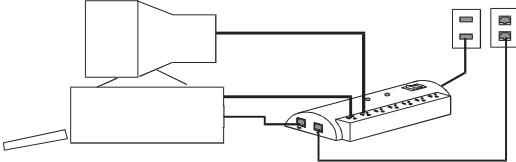Note: Installation example is shown in Figure 4.

Figure 4

Mounting the SurgeArrest on a wall

The SurgeArrest has two mounting holes located on the bottom of the unit. These holes were designed to hook on to screw heads or nail heads. The spacing between the center of the screw holes is 11.43 cm. For best results, when fastening screws or nails into a wall, leave about 3.5 mm spacing between the wall and the bottom flange of the screw or nail.

Specifications

Unless otherwise stated, ratings are based on ambient temperature of 20°C.
Operating Temperature Range: 0°C to 40°C
Operating Voltage: 100 VAC, 50/60 Hz
Operating Relative Humidity: 0 - 95% non-condensing
Safety Approval: Dentori T-mark
For more a detailed specification, contact APC.

Table 1: AC Surge Performance Ratings

Parameter/Model	Professional	Network
EMI/RFI Noise Rejection (100kHz to 10MHz)	25-60 dB	40-90 dB
Cat. A Normal Mode Let Through Voltage % of 6kV pulse	<1.4%	<0.6%
Total Energy Capacity	420J	680J
Peak Surge Current (with 8x20µs pulse) Normal Mode	13kA	17.5kA
Peak Surge Current (with 8x20µs pulse) Common Mode	11kA	22kA

Table 2: Telephone Protector Ratings

Parameter/Model	Professional	Network
Operating Voltage	220VDC	--
Peak Surge Current (with 8x20µs pulse) All Modes	150A	--
Number of Lines Protected	1	--
Connector Type	RJ45	--
Series Resistance	6–12Ω	--

Table 3: Network Protector Ratings

Parameter/Model	Professional	Network
Operating Voltage	--	8VDC
EIA/TIA 568 Performance	--	Category 5
Peak Surge Current (with 8x20µs pulse) Differential Modes	--	500A
Peak Surge Current (with 8x20µs pulse) Common Mode	--	150A
Connector Type	--	RJ45

Limited Product Warranty

American Power Conversion offers a limited two year warranty on SurgeArrest surge suppressors.
APC warrants its products to be free from defects in materials and workmanship under normal use and service for two years for the original purchaser. Its obligation under this warranty is limited to repairing or replacing, at its sole option, any such defective products. To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from APC or an APC service center with transportation charges prepaid and must be accompanied by a brief description of the problem and proof of date of purchase. This warranty applies only to the original purchaser.

Customer Service/Technical Support

APC Japan
BR Gotanda 7th Floor
2-30-4 Nishi-gotanda
Shinagawa-ku, Tokyo 141
Japan
Phone: 03-5434-2021
Fax: 03-5434-2022
Free dial: 0120-80-60-90 (within Japan only)
American Power Conversion
132 Fairgrounds Road
West Kingston, Rhode Island 02892
USA

Internet Address: http://www.apcc.com